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Article Information   View: **1-2** | Vie\

1. **Gesture-speech based HMI for a rehabilitation robot**
    Shoupu Chen; Kazi, Z.; Beitler, M.; Salganicoff, M.; Chester, D.; Foulds, R.
    Southeastcon '96. 'Bringing Together Education, Science and Technology'., Proceedings of the
    11-14 Apr 1996
    Page(s): 29-36
    Summary: One of the most challenging problems in rehabilitation robotics is the design of an ε
    machine interface (HMI) allowing the user with a disability considerable freedom and flexibility.
    user direction approach combining comma.....

    AbstractPlus | Full Text: PDF   IEEE CNF

2. **Toward multimodal human-computer interface**
    Sharma, R.; Pavlovic, V.I.; Huang, T.S.
    Proceedings of the IEEE
    Volume: 86 Issue: 5 May 1998
    Page(s): 853-869
    Summary: Recent advances in various signal processing technologies, coupled with an explos
    available computing power, have given rise to a number of novel human-computer interaction (
    speech, vision-based gesture recognition, eye tra.....

    AbstractPlus | References | Full Text: PDF   IEEE JNL

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IEEE STD	IEEE Standard

Display Format: ○ Citation   ● Citation & Abstract

Article Information   View: **1-5** | Viev

1. **Multimodal Interfaces with voice and gesture input**
    Milota, A.D.; Blattner, M.M.
    Systems, Man and Cybernetics, 1995. 'Intelligent Systems for the 21st Century'., IEEE Internat on
    Volume: 3 22-25 Oct 1995
    Page(s): 2760-2765 vol.3
    Summary: The modalities of speech and gesture have different strengths and weaknesses, bu create a synergy where each modality corrects the weaknesses of the other. The authors belie: multimodal system such as one intertwining speech an.....

    AbstractPlus | Full Text: PDF   IEEE CNF

2. **Word learning in a multimodal environment**
    Roy, D.; Pentland, A.
    Acoustics, Speech, and Signal Processing, 1998. ICASSP '98. Proceedings of the 1998 IEEE I Conference on
    Volume: 6 12-15 May 1998
    Page(s): 3761-3764 vol.6
    Summary: We are creating human machine interfaces which let people communicate with mac natural modalities including speech and gesture. A problem with current multimodal interfaces i forced to learn the set of words and gestures wh.....

    AbstractPlus | Full Text: PDF   IEEE CNF

3. **Current trends in multimodal input recognition**
    Salem, B.; Yates, R.; Saatchi, R.
    IEE Colloquium on Virtual Reality Personal Mobile and Practical Applications - 98/454
    28 Oct 1998
    Page(s): 3/1-3/6
    Summary: In order to optimise the effectiveness of a personal virtual reality (VR) system, it is r a natural and efficient way of interacting with it. This can be achieved by incorporation of a dire user interface. To communicate .....

    AbstractPlus | Full Text: PDF   IEE CNF

4. **Toward multimodal interpretation in a natural speech/gesture interface**
    Kettebekov, S.; Sharma, R.
    Information Intelligence and Systems, 1999. Proceedings. 1999 International Conference on 1999
    Page(s): 328-335
    Summary: Hand gestures and speech comprise the most important modalities of human to hui Motivated by this, there has been a considerable interest in incorporating these modalities for "i computer interaction (HCI) part.....

    AbstractPlus | Full Text: PDF   IEEE CNF

5. **Improving continuous gesture recognition with spoken prosody**
    Kettebekov, S.; Yeasin, M.; Sharma, R.
    Computer Vision and Pattern Recognition, 2003. Proceedings. 2003 IEEE Computer Society C

Volume: 1 18-20 June 2003
Page(s): I-565- I-570 vol.1

Summary: Despite recent advances in gesture recognition, reliance on the visual signal alone unrestricted continuous gesticulation is inherently error-prone. Since spontaneous gesticulation coverbal in nature, there have been some attem.....

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☐	L5	L4 and (finite adj state)	32
☐	L4	(speech and gesture) and recognition and multimod$3	138
☐	L3	L2 and gesture	9
		DB=PGPB,USPT,EPAB,JPAB,TDBD; PLUR=YES; OP=OR	
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END OF SEARCH HISTORY

Search Results - Record(s) 1 through 19 of 19 returned.

L7: Entry 1 of 19   File: PGPB   Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030065505
DOCUMENT-IDENTIFIER: US 20030065505 A1

TITLE: Systems and methods for abstracting portions of information that is
represented with finite-state devices
PUBLICATION-DATE: April 3, 2003

US-CL-CURRENT: 704/9
INT-CL: [07] G06 F 17/27

L7: Entry 2 of 19   File: PGPB   Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030046087
DOCUMENT-IDENTIFIER: US 20030046087 A1

TITLE: Systems and methods for classifying and representing gestural inputs
PUBLICATION-DATE: March 6, 2003

US-CL-CURRENT: 704/275
INT-CL: [07] G10 L 21/00

L7: Entry 3 of 19   File: PGPB   Nov 1, 2001

PGPUB-DOCUMENT-NUMBER: 20010037201
DOCUMENT-IDENTIFIER: US 20010037201 A1

TITLE: Speech recognition accuracy in a multimodal input system
PUBLICATION-DATE: November 1, 2001

US-CL-CURRENT: 704/258
INT-CL: [07] G10 L 13/00

L7: Entry 4 of 19   File: USPT   Mar 15, 2005

US-PAT-NO: 6868383
DOCUMENT-IDENTIFIER: US 6868383 B1

TITLE: Systems and methods for extracting meaning from multimodal inputs using
finite-state devices

DATE-ISSUED: March 15, 2005

US-CL-CURRENT: 704/254; 704/251, 715/863

INT-CL: [07] G10L01508, G10L01524

L7: Entry 5 of 19   File: USPT   Nov 23, 2004

US-PAT-NO: 6823308
DOCUMENT-IDENTIFIER: US 6823308 B2

TITLE: Speech recognition accuracy in a multimodal input system

DATE-ISSUED: November 23, 2004

US-CL-CURRENT: 704/256; 704/236, 704/239, 704/255

INT-CL: [07] G10 L 15/14, G10 L 15/08, G10 L 15/28

L7: Entry 6 of 19   File: USPT   May 11, 2004

US-PAT-NO: 6735566
DOCUMENT-IDENTIFIER: US 6735566 B1

TITLE: Generating realistic facial animation from speech

DATE-ISSUED: May 11, 2004

US-CL-CURRENT: 704/256; 345/473, 704/270

INT-CL: [07] G10 L 15/14, G10 L 21/00, G06 T 15/70

L7: Entry 7 of 19   File: USPT   Apr 20, 2004

US-PAT-NO: 6725199
DOCUMENT-IDENTIFIER: US 6725199 B2

TITLE: Speech synthesis apparatus and selection method

DATE-ISSUED: April 20, 2004

US-CL-CURRENT: 704/258; 704/260, 704/270.1

INT-CL: [07] G10 L 13/00

L7: Entry 8 of 19   File: USPT   Jan 20, 2004

US-PAT-NO: 6681206
DOCUMENT-IDENTIFIER: US 6681206 B1

TITLE: Method for generating morphemes

DATE-ISSUED: January 20, 2004

US-CL-CURRENT: 704/243; 704/245, 704/257

INT-CL: [07] G10 L 15/06

L7: Entry 9 of 19   File: USPT   Dec 16, 2003

US-PAT-NO: 6665640
DOCUMENT-IDENTIFIER: US 6665640 B1

TITLE: Interactive speech based learning/training system formulating search queries
based on natural language parsing of recognized user queries

DATE-ISSUED: December 16, 2003

US-CL-CURRENT: 704/257; 704/270.1, 704/275, 707/4

INT-CL: [07] G10 L 15/18, G10 L 15/22, G06 F 17/30
_____

   L7: Entry 10 of 19   File: USPT   Jul 14, 1998

US-PAT-NO: 5781179
DOCUMENT-IDENTIFIER: US 5781179 A

TITLE: Multimodal information inputting method and apparatus for embodying the same

DATE-ISSUED: July 14, 1998

US-CL-CURRENT: 345/157; 704/251

INT-CL: [06] G09 G 5/08
_____

   L7: Entry 11 of 19   File: DWPI   Mar 15, 2005

DERWENT-ACC-NO: 2005-281798
ABSTRACTED-PUB-NO: US 6868383B
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TITLE: Multimodal recognition system for speech input to personal digital
assistant, generates recognition model for other mode recognition systems with
recognition results from one mode recognition system

INT-CL (IPC): G10 L 15/08, G10 L 15/24
Derwent-CL (DC): P86, T01 , T04 , W04
EPI Codes: T01-C08A; T01-J10B2; T04-D07D; W04-V04A;
_____

   L7: Entry 12 of 19   File: DWPI   Jan 20, 2004

DERWENT-ACC-NO: 2004-200431
ABSTRACTED-PUB-NO: US 6681206B
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TITLE: Acoustic morphemes generating method for use in spoken dialog system,
involves clustering salient phone-phrases into acoustic morphemes based on semantic
and syntactic similarities

INT-CL (IPC): G10 L 15/06
Derwent-CL (DC): P86, T01 , U21 , W01 , W04
EPI Codes: T01-F06; T01-J18; U21-C01E; W01-C02B9; W04-V01;
_____

   L7: Entry 13 of 19   File: DWPI   Dec 16, 2003

DERWENT-ACC-NO: 2004-058591
ABSTRACTED-PUB-NO: US 6665640B
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TITLE: Speech based interactive learning system for e-learning, processes
recognized speech utterance data to form sentence data which is converted into
speech query for identifying topic answer entry corresponding to speech query

INT-CL (IPC): G06 F 17/30, G10 L 15/18, G10 L 15/22
Derwent-CL (DC): P86, T01 , W04
EPI Codes: T01-J30A; T01-N01D1; W04-V04A; W04-W05A;

L7: Entry 14 of 19   File: DWPI   Apr 3, 2003

DERWENT-ACC-NO: 2003-708376
ABSTRACTED-PUB-NO: US20030065505A
COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Abstraction method for finite-state device, involves abstracting certain
aspects of gestural content and taking projection from resulting finite state
machine after multimodal integration

INT-CL (IPC): G06 F 17/27
Derwent-CL (DC): T01
EPI Codes: T01-J11A1; T01-J17;

L7: Entry 15 of 19   File: DWPI   Mar 6, 2003

DERWENT-ACC-NO: 2003-439455
ABSTRACTED-PUB-NO: US20030046087A
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TITLE: Gesture representation method for wireless portable computing devices,
involves providing recognized possible meaning lattice, based on gesture
recognition lattice and recognized possible words sequences lattice

INT-CL (IPC): G10 L 21/00
Derwent-CL (DC): P86, T01 , T04 , W04
EPI Codes: T01-J10B2; T01-J11A1; T01-J18; T01-M06A1A; T04-D03; T04-D04; W04-V01;
W04-V04A; W04-V05;

L7: Entry 16 of 19   File: DWPI   Apr 20, 2004

DERWENT-ACC-NO: 2003-183511
ABSTRACTED-PUB-NO: US20020184027A
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TITLE: Speech synthesis apparatus for use as voice browser, assesses quality of
speech form utterances to select speech synthesis engines with different
characteristics

INT-CL (IPC): G10 L 13/00, G10 L 13/04
Derwent-CL (DC): P86, T01 , W04
EPI Codes: T01-J18; T01-N03A1; W04-V04C;

L7: Entry 17 of 19   File: DWPI   Nov 23, 2004

DERWENT-ACC-NO: 2002-218521
ABSTRACTED-PUB-NO: EP 1126436A
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TITLE: Speech recognition method for complementary multimodal input system involves
recognizing words by comparing identified features of speech and modal input data
based on models for speech and event recognition

INT-CL (IPC): G06 F 3/16, G10 L 13/00, G10 L 15/08, G10 L 15/14, G10 L 15/18, G10 L
15/24, G10 L 15/28
Derwent-CL (DC): P86, T01 , W04
EPI Codes: T01-C08A; T01-E01C; T01-J05B4P; T01-J18; W04-V01; W04-V04C;

L7: Entry 18 of 19   File: DWPI   Mar 30, 2005

DERWENT-ACC-NO: 2000-259225
ABSTRACTED-PUB-NO: EP 992933A
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TITLE: Generating realistic facial animation directly from speech, analyses voice
with regard to learned categories of facial gesture and trains hidden Markov models
to obtain optimal representation for new vocal actions

INT-CL (IPC): G06 K 9/00, G06 K 9/68, G06 T 13/00, G06 T 15/70, G10 L 15/00, G10 L
15/14, G10 L 21/00
Derwent-CL (DC): P86, T01
EPI Codes: T01-C08A; T01-J10C4; T01-J10C5; T01-J18;

L7: Entry 19 of 19   File: DWPI   Mar 28, 1997

DERWENT-ACC-NO: 1997-250041
ABSTRACTED-PUB-NO: JP 09081364A
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TITLE: Multimodal information input method for electronic computer – involves
directing object displayed on monitor of computer using voice command converted
into internal computer command by application program

INT-CL (IPC): G06 F 3/033, G06 F 3/16, G09 G 5/08, G10 L 3/00
Derwent-CL (DC): P85, P86 , T01 , W04
EPI Codes: T01-C10; T01-J18; W04-V04;

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